## **CLAIMS WITH AMENDMENTS**

- 1. (currently amended) A open-face electrical connector comprising:
  - a housing, said housing having a chamber therein;
  - a sealant located in said chamber;
- a wire connector lug <u>having a threaded recess</u>, said wire connector lug having an open jaw for lateral insertion of an electrical wire therein;
  - a threaded member having a wire engaging end;

a cover;

- a hinge, said hinge holding said cover in a spaced condition from said housing; said cover and said housing forming an enclosure so that when said cover is placed on said housing the sealant located in said housing is forced around the wire connector lug to form a sealant covered electrical junction in the wire connector lug.
- 2. (original) The open-face electrical connector of claim 1 wherein the hinge comprises a living hinge connecting said housing and said cover.
- 3. (original) The open-face electrical connector of claim 1 wherein the wire connector lug has an I shape with an open jaw at each end.
- 4. (canceled) The open-face electrical connector of claim 1 wherein the wire connector lug includes a threaded recess and a threaded member having a wire engaging end.
- 5. (original) The open-face electrical connector of claim 1 wherein the cover and said housing comprise electrically insulating material.

- 6. (original) The open-face electrical connector of claim 1 wherein the wire connector lug comprises an electrical conductor.
- 7. (original) The open-face electrical connector of claim 1 wherein the wire connector lug has two open jaws for lateral wire insertion therein.
- 8. (original) The open-face electrical connector of claim 1 wherein the housing and the cover comprise a polymer plastic.
- 9. (original) The open-face electrical connector of claim 1 wherein the sealant comprises a viscous sealant that is retainable in the chamber of the housing.
- 10. (original) The open-face electrical connector of claim 9 wherein the sealant comprise silicone.
- 11. (original) The open-face electrical connector of claim 1 wherein the sealant in said chamber comprises an amount sufficient to fill the chamber in the housing when the wire connector lug is positioned in the chamber.
- 12. (original) The open-face electrical connector of claim 1 wherein the wire connector lug is frictionally held in the cover.
- 13. (original) The open-face electrical connector of claim 1 wherein the housing includes a wire access opening on each side of the housing.
- 14. (original) The open-face electrical connector of claim 1 wherein the housing includes a first latch member and the cover includes a second latch member that cooperatively hold the cover in a closed condition.

- 15. (currently amended) The open-face electrical connector of claim 1 14 wherein one of the latch members comprises an elongated opening and the other latch member comprise a lip for insertion into the elongated opening.
- 16. (currently amended)An on-the-go sealable wire connector comprising:
  - a housing, said housing having a chamber therein;
  - a sealant located in said chamber;

a wire connection member <u>including</u> a wire connector <u>lug having a threaded member for</u> rotatingly engagement with an electrical wire therein, said wire connection member maintainable in a sealant free state when said housing is in an open condition and said wire connector connection member is in an unconnected condition, said wire connection member displaceable into the chamber;

a cover, said cover carrying said wire connection member, said cover and said housing forming an enclosure so that when said cover is placed on said housing the sealant located in the chamber flows around the wire connection member to form a sealant covered electrical junction in the wire connection member to thereby bring the wire connection member from a sealant free state to a sealant covered state.

- 17. (currently amended) The on-the-go sealable wire connector of claim 16 wherein the cover ishingedly is hingedly attached to said housing.
- 18. (original) The on-the-go sealable wire connector of claim 17 wherein the sealant is a viscous sealant.
- 19. (original) The on-the-go sealable wire connector of claim 18 wherein the enclosure includes opening for extending electrical wires therethrough.

- 20. (original)The on-the-go sealable wire connector of claim 19 wherein the housing comprises an electrically insulating material.
- 21. (original) The on-the-go sealable wire connector of claim 20 wherein the housing and the cover include a latch for on-the-go securing the cover to the housing to thereby maintain the sealant therein from coming into contact with an external connector environment.
- 22. (currently amended) The on-the-go sealable wire connector of claim 21 wherein the wire connection comprises a

an electrically insulated material forming a housing, said housing having a chamber therein; a viscous sealant located in said chamber;

a wire connection member including, a wire connector lug having a threaded member forrotatingly to bring said wire connector lug in electrical engagement with an electrical wire therein, said wire connection member maintainable in a sealant free state when said housing is in an open condition and said wire connector lug is in an unconnected condition, said wire connector lug displaceable into the chamber;

a cover hingedly attached to said housing, said cover carrying said wire connection member, said cover and said housing forming an enclosure with openings for extending electrical wires therethrough so that when said cover is placed on said housing the sealant located in the chamber flows around the wire connector lug to form a sealant covered electrical junction in the wire connection member to thereby bring the wire connector lug from a sealant free state to a sealant covered state; and

a latch for on-the-go securing the cover to the housing to thereby maintain the sealant therein from coming into contact with an external connector environment.

23. The on-the-go sealable wire connector of claim 22 wherein the wire connector lug has at least one open jaw for lateral insertion of an uncut electrical wire therein.

24. (currently amended) A wire connector comprising:

a housing, said housing having a chamber therein;

a cover for said housing, said cover having an inside surface and an outside surface;

a wire connector lug <u>having a threaded recess</u> secured to said inside surface of said cover so that when said wire connector lug is outside the chamber of said housing the wire connector lug is accessible for forming an electrical connection thereto, said wire connector lug extending from said inside surface of said cover so that when said cover is placed on said housing the wire connector lug extends into the chamber in the housing to shield the electrical connection;

and a threaded member for engaging the threaded recess.

- 25. (original) The wire connector or claim 24 wherein the chamber contains a sealant.
- 26. (original) The wire connector of claim 25 wherein a volume of sealant in the chamber is sufficient so that positioning the wire connector lug in the chamber causes an encapsulation of the wire connector lug.
- 27. (original) The wire connector of claim 26 wherein the cover is connected to said housing by a hinge.
- 28. (original) The wire connector of claim 27 wherein a portion of the chamber is free of sealant.
- 29. (original) The wire connector of claim 28 wherein a volume of the portion of the chamber that is free of sealant and a volume of the wire connector lug are such that forcing the wire connector lug into the volume of sealant causes the sealant to flow around the wire connector lug and encapsulate the electrical connection without the sealant being forced out of the housing.

- 30. (currently amended) The wire connector of claim 29 wherein the wireconnector wire connector lug comprises an I-shaped connector with a set of jaws on each end.
- 31. (original) The wire connector of claim 30 wherein at least one of the set of jaws includes a wire locator.
- 32. (original) The wire connector of claim 31 wherein the cover includes a latch for securing said cover to said housing.
- 33. (original) The wire connector of claim 32 wherein the hinge includes a bias to hold the cover in a laterally extended condition from the housing.
- 34. (original) The wire connector of claim 33 wherein the housing includes a wire relief area to permit a wire to extend through a housing side wall.
- 35. (currently amended) The wire connector of claim 24 wherein said wire connectorlug connector lug includes at least one J-shaped wire receiver.
- 36. (original) The wire connector of claim 24 wherein said wire connector lug includes at least three wire receivers.
- 37. (original) The wire connector of claim 24 wherein the wire connector lug includes a J-shaped wire receiver at opposite ends to permit joining an uncut wire thereto.
- 38. (original) The wire connector of claim 24 wherein the wire connector lug includes a cylindrical shaped wire receiver.

- 39. (currently amended) The wire connector of claim 24 wherein the housing contains a sealant and afilm extends across the housing to retain the sealant in the housing.
- 40. (original) The wire connector of claim 24 wherein the housing contains a set of knockouts to provide a wire passage to the chamber in the housing.
- 41. (original) The wire connector of claim 24 wherein the housing and the cover comprises separate parts.
- 42. (currently amended) The method of forming a branch attachment to an electrical wire without having to cut the electrical wire comprising the steps of:

forming a first housing having a chamber therein;

placing a sealant in the first housing;

forming a second housing, said second housing having an electrical connection member thereon;

maintaining the electrical connection member free of sealant;

inserting an <u>uncut</u> electrical wire into the electrical connection member <u>while maintaining the</u> electrical connection member free of <u>sealant</u>;

securing the uncut electrical wire to the electrical connection member while the electrical connection member is free of sealant;

securing a further electrical wire to the electrical connection to form a branch attachment to the uncut electrical wire; and

placing the first housing with the sealant therein and the second housing in engagement to cause the sealant in the first housing to flow around an electrical junction in the electrical connection member.

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- 43. (original) The method of claim 42 including the step of securing the electrical connection member to one of the housings.
- 44. (original) The method of claim 42 wherein the step of placing a sealant in the first housing comprises placing a viscous sealant in the first housing.
- 45. (original) The method of claim 42 including the step of placing sufficient sealant in the first housing so that when the second housing is brought into engagement therein the sealant in the first housing is forced to flow around the wire connection member to form a waterproof electrical connection therein.
- 46. (original) The method of claim 42 including the step of stripping a portion of an the uncut electrical wire and inserting the stripped portion into the wire connection member.
- 47. (currently amended) The method of forming a branch attachment comprising the steps of: forming a first housing having a chamber therein;

forming a second housing, said second housing having an electrical connection member having a sealant therein;

inserting an electrical wire into the sealant in the electrical connection member;

rotatingly engaging a threaded member in the electrical connection member to bring the electrical wire into engagement with the electrical connection member; and

bringing the sealant in the second housing

closing the first housing and the second housing around the electrical connection member.

48. (new) The method of claim 46 including the step of securing the uncut electrical wire to the electrical connection member includes the step of rotationally engaging a threaded recess in the electrical connection member to form an electrical connection therebetween.

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